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	Application No.	Applicant(s)	
	10/054,532	LEE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Yvette C. Thornton	1752	
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) on NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY (Consumer of the Office or upon petition by the applicant. See 37 CFR 1.313 of this communication is responsive to amendment filed on D	OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject and MPEP 1308.	pplication. If not included on will be mailed in due cours	se. THIS
	oddmoor EE, Eood.		
2. The allowed claim(s) is/are <u>16-21</u> .			
3. X The drawings filed on 22 January 2002 are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unda All b Some* c None of the: 1. Actified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 4. Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail December 1 of the priority documents in the paper No./Mail December 1 of the priority documents in the priority docume	been received. been received in Application No. uments have been received in thi of this communication to file a repl ENT of this application. Ited. Note the attached EXAMINE is reason(s) why the oath or decla be submitted. on's Patent Drawing Review (PTO Amendment / Comment or in the B4(c)) should be written on the draw he header according to 37 CFR 1.12	s national stage application for y complying with the requirer R'S AMENDMENT or NOTIC ration is deficient. D-948) attached Office action of wings in the front (not the back 1(d).	ments CE OF
Attachment(s)			
1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-152	2)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summai Paper No./Mail D		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 			
4. Examiner's Comment Regarding Requirement for Deposit		nent of Reasons for Allowand	е
of Biological Material	9. Other		
		Yvette Clarke Thornton Patent Examiner Art Unit: 1752	

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REASONS FOR ALLOWANCE

This is written in reference to application number 10/054532 filed on January 22, 2002 and published as US 2003/0022100 A1 on January 30, 2003.

Response to Amendment

- 1. Claims 1-2, 8-15 and 22-28 have been cancelled. Claim 29 is newly added.
- 2. Support for the limitations that "at least one of b and c must be present" is found in the specification on page 7, lines 10-12 and page 8, lines 17-19.

EXAMINER'S AMENDMENT

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Michael Hull on March 11, 2004.
- 5. The application has been amended as follows:
 - Please cancel claims 3-7 and 29;
 - In claim 16, line 2 replace "the" with --a--;
 - In claim 16, line 2 replace "the photoresist monomer of claim 3" with --a repeating unit selected from the group consisting of Formula 2 and Formula 3:

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Formula 2

Formula 3

wherein R_1 is selected from the group consisting of H, halogen, (C_1-C_{20}) alkyl, (C_1-C_{20}) alkyl with halogen substituent(s), (C_1-C_{20}) alkyl containing an ether group (-O-), (C_1-C_{20}) alkyl with halogen substituent(s) and containing an ether group, and -COOR';

 R_2 , R_3 and R_6 are individually selected from the group consisting of H, halogen, (C_1 - C_{20}) alkyl, (C_1 - C_{20}) alkyl with halogen substituent(s), (C_1 - C_{20}) alkyl containing an ether group, and (C_1 - C_{20}) alkyl with halogen substituent(s) and containing an ether group;

 R_1 , R_4 and R_7 are individually acid labile protecting groups;

X and Y are individually selected from the group consisting of (C1-C10) alkylene, O and $S_{\rm i}$

n is 0 or 1; and

the ratio a:b:c falls within the ranges 1-50mol%: 0-50mol%: 0-80mol%, wherein at least one of b and c must be present--.

Allowable Subject Matter

- 6. Claims 16-21 are allowed.
- 7. The following is an examiner's statement of reasons for allowance: the prior art reference of Nachbur et al. (US 3449302 A) teaches copolymers comprising vinylidenechloride, butadienesulphone, an ethylenically unsaturated film forming monomer and an ethylenically unsaturated hydrophilic monomer. Nachbur however failed to teach

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and/or suggest the said polymer being admixed with a photoacid generator and an organic solvent to form a photoresist composition. One of ordinary skill in the art would not have been motivated nor would it have been obvious to incorporate a photoacid generator into the teachings of Nachbur.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yvette C. Thornton whose telephone number is 571-272-1336. The examiner can normally be reached on Monday-Thursday from 8:00 am to 6:30 pm.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F. Huff, can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access

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to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yvette Clarke Thornton

Patent Examiner Art Unit 1752

yct March 11, 2004